

aceline

User Manual

TV antenna G-090

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Dear Customer,

Thank you for choosing our products.

We are pleased to offer you appliances and devices designed and manufactured to the highest standards of quality, functionality, and design. Before using the device, please read this manual carefully. It contains important information regarding your safety, as well as recommendations for the proper use and care of the product. Please keep this manual in a safe place and use it as a reference guide during future operation of the product.

Intended Use

This device is designed to receive analog and digital TV signals in the UHF and VHF bands. This is an active antenna that provides maximum gain when connected to the TV's USB port.

Safety Precautions

- Before connecting to a TV or other device, make sure the devices are powered off. The antenna is powered by connecting it to the TV's USB port.
- To avoid the risk of fire or electric shock, keep the device away from any liquids.
- Before turning on the device, make sure it is securely connected to the power supply.
- Do not place foreign objects on the device housing.
- Install the device in a dry, well-ventilated area. Keep it away from heating appliances, and do not expose it to direct sunlight, mechanical vibration, moisture, or dusty environments
- Keep the device away from open flame sources, such as lit candles.
- After prolonged exposure to cold temperatures, allow the device to acclimatize at room temperature for at least 1 hour before turning it on.
- Disconnect the antenna from all other devices if it will not be used for an extended period, and before a thunderstorm. Do not touch the device or the power cord during a thunderstorm.
- Never use abrasive materials or organic solvents (alcohol, gasoline, etc.) to clean the device. A small amount of neutral detergent may be used. Always disconnect the antenna from power and other devices before cleaning.
- Do not use the device if visible damage is detected. Unplug it immediately and contact an authorized service center.
- This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the device.
- This device is not intended for commercial use.

Specifications

- Model: G-090.
- Specifications: Aceline.
- Frequency range:
 - VHF: 45–230 MHz.
 - UHF: 470–860 MHz.
- Supported bands: FM/VHF/UHF.
- Gain (max.): 12 dB.
- Supported broadcasting standards: DVB-T2.
- Impedance: 75 Ohm.
- Placement: Indoor.
- Scope of application: Domestic.
- Package contents: Device, user manual.

Installation

1. Install the antenna at the maximum possible height.
2. Point the antenna directly toward the TV broadcast tower.
3. If necessary, use a signal amplifier to improve reception quality.

Note: To ensure the best possible signal reception, observe the following guidelines:

- Keep the antenna away from sources of interference, such as high-power devices including air conditioners, elevators, hair dryers, microwave ovens, etc.
- Place the antenna as close to a window as possible.

Effect of Broadcast Tower Location on Antenna Performance

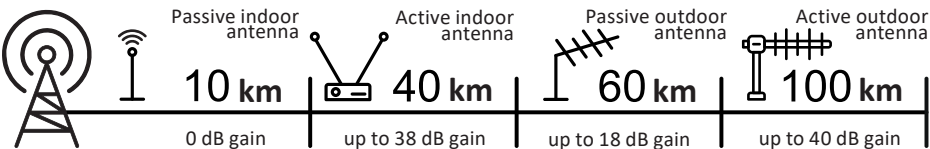
The distance from your home to the broadcast tower is one of the most important factors affecting signal reception quality. Different distances require different types of antennas:

- Short distance (up to 20 km). If the tower is close by, a passive indoor antenna will work well. The signal will be sufficiently strong and stable.
- Medium distance (20–50 km). At this distance, an active indoor antenna or a passive outdoor antenna with a signal amplifier may be required.
- Long distance (over 50 km). When located far from the tower, it is recommended to use an active, directional outdoor antenna with a signal amplifier. It is important to properly orient the antenna toward the broadcast tower for optimal reception.

In addition to distance, other factors also affect signal quality:

4. Terrain. Mountains, hills, and tall buildings can obstruct signal transmission.
5. Weather conditions. Rain, snow, and fog can weaken the signal.
6. Electromagnetic interference. Household appliances, reinforced concrete, Wi-Fi routers, and power lines can cause interference that degrades reception quality.

Antenna Range Diagram



How to Identify a Broadcast Tower

1. Height and structure: Broadcast towers are typically very tall structures. The taller the tower, the greater its coverage radius. They can reach heights of several hundred meters and often have a lattice metal structure.
2. Antennas: Towers are equipped with numerous antennas of various shapes and sizes.
3. Location: Broadcast towers are typically installed on elevated ground or tall buildings to maximize signal coverage. In cities and large towns, they are often found in specially designated areas.
4. Fencing and restrictions: Broadcast towers are often surrounded by fencing and warning signs prohibiting unauthorized access, due to safety requirements.
5. Flashing lights: To prevent collisions with aircraft, broadcast towers are usually equipped with flashing lights that are visible at night.
6. Support equipment: Technical buildings and generators that keep the equipment running can often be seen near the towers.
7. Color: Towers are typically painted red and white.

Digital Channel Support

To determine whether your TV supports digital television (DVB-T, DVB-T2, or similar standards), follow these steps:

- Check your TV's specifications in the user manual or on the manufacturer's website. Your TV should support DVB-T, DVB-T2, ATSC, or other digital standards.
- Turn on the TV and open the settings menu. In the «Channels» or «Tuner» section, try running «Auto Channel Search.» If the menu includes an option to select digital television (sometimes labeled «DTV»), your TV supports digital channels.
- Check your TV's labeling and stickers. Some TVs have stickers or markings indicating digital TV support. Look for labels such as «DVB-T2,» «ATSC,» etc.
- Consult the seller or a home appliance specialist. They will be able to confirm whether your TV supports digital television.
- Connect an external antenna and try searching for channels using the auto-search function. If your TV finds digital channels and displays them correctly, then digital TV support is available.

Note: If your TV does not support digital TV, you will need to connect a TV tuner box to the TV, and an antenna to the tuner box to amplify the signal. The antenna cable is plugged into the tuner, which converts the received signal into a format suitable for the TV. The decoded signal is then transmitted to the TV connected to the tuner, allowing you to watch digital TV.

Checking Antenna Alignment on the TV*

- The antenna will receive a better signal when pointed toward the broadcast tower/repeater. To do this, monitor the signal strength and quality from the antenna: on the TV tuner remote, find the «Info» (INFO) button. Press the button several times.
- Two bars should appear on the TV screen: «Signal Level» and «Signal Quality.»
- To achieve the maximum value for these parameters, rotate the antenna every 5 seconds and check whether the numbers on the screen change.

Device Connection

Power from TV

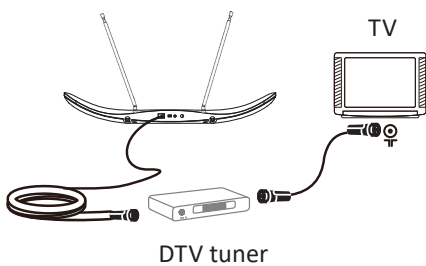
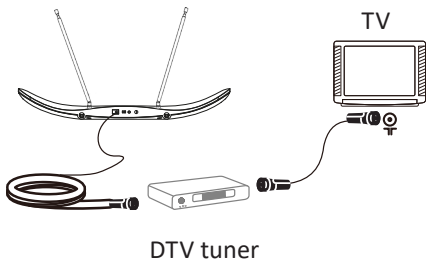
1. Connect the antenna's coaxial cable plug to the digital TV set-top box.
2. Connect the digital TV set-top box to the TV.
3. Adjust the antenna position for optimal reception by turning it in different directions.

Power from Digital TV Tuner

1. Connect the antenna's coaxial cable plug to the digital TV set-top box.
2. Connect the digital TV set-top box to the TV.
3. Turn on the digital TV set-top box and check whether the antenna is detected by the device. If it is not detected, try disconnecting the set-top box and repeating the previous step.
4. Adjust the antenna position for optimal reception by turning it in different directions.

Notes

- This antenna can be connected either directly to a TV or to a digital tuner.
- All images and diagrams are provided for reference only and may differ from the actual device.



Troubleshooting Guide

Issue	Possible Solution
No signal	Make sure that DVB-T2 digital TV broadcasting is available in your region and that you are within a reliable signal reception area
Picture freezes or breaks up / No picture / Sound cuts out or is missing	Weak signal level. Try moving or reorienting the antenna to obtain a stronger and better-quality signal
	Check whether power is being supplied to the antenna (use the included power adapter, or enable antenna power supply in the corresponding menu option of your DVB-T2 receiver or DVB-T2-enabled TV)

* Does not work on smart TV.

Rules and Conditions for Installation, Storage, Transportation, Sale (Distribution), and Disposal

- The installation and mounting conditions for the device are described in the «Installation» section of this user manual.
- The device must be stored in its original packaging, on heated premises, both at the manufacturer's and at the consumer's sites. The ambient temperature should be between +5 °C and +40 °C, and the relative humidity should not exceed 80% (non-condensing). The storage area must be free from aggressive contaminants (e.g., acid or alkali vapors) that could cause corrosion.
- The device must be transported in a dry place.
- The device requires careful handling. Protect it from exposure to dust, dirt, impact, moisture, fire, and other hazards.
- Sale or distribution of the device must be carried out in accordance with local legislation.
- Upon expiration of the device's service life, it must not be disposed of with unsorted household waste. Instead, it must be taken to an authorized collection point for electrical and electronic equipment for subsequent recycling and disposal in accordance with federal or local legislation. By ensuring proper disposal of this product, you help conserve natural resources and prevent potential harm to the environment and human health that may result from improper handling. For more detailed information about collection and disposal points for this product, please contact your local municipal authorities or your household waste disposal service.
- If a device malfunction is detected, immediately contact an authorized service center or dispose of the device.

Warranty Information

The manufacturer guarantees the device will function properly throughout the warranty period and be free from defects in materials and assembly. The warranty period commences on the date of purchase and applies to new products only. Warranty service includes free repair or replacement of defective parts that fail during the warranty period, provided the failure is not caused by consumer misuse and the product is operated in accordance with the user manual. Repairs or part replacements shall be performed at authorized service centers.

Warranty Period: 12 months

Service Life: 24 months

For the up-to-date list of authorized service centers, please visit:

<https://www.dns-shop.ru/service-center/>

Additional Information

Manufacturer: Zhenjiang Wing Electron Co., Ltd.

Xinglong Village, Yaoqiao, New District, Zhenjiang City, Jiangsu Province, China.

Made in China.

Product specifications, information and appearance are subject to change without prior notice, for quality improvement of our products.



Production date (mm.yyyy): _____ v.1

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